		
	Application No.	Applicant(s)
Neder of All contilles	10/735,285	AKOPIAN ET AL.
Notice of Allowability	Examiner	Art Unit
·	Guy J. Lamarre	2133
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communicat GHTS. This application is subject	application. If not included ion will be mailed in due course. THIS
1. This communication is responsive to <u>12/12/03</u> .		
2. The allowed claim(s) is/are <u>1-14</u> .		
 Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Certified copies not received: 	been received. been received in Application No.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a rep ENT of this application.	ply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in t	84(c)) should be written on the dra ne header according to 37 CFR 1.12	wings in the front (not the back) of 21(d).
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATERIA FOR THE DEPOSIT OF BIOLOG	L must be submitted. Note the ICAL MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 🗆 Notice of Informa	ıl Patent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summa	· · · · · · · · · · · · · · · · · · ·
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail I	
Paper No./Mail Date <u>4/02/04 - 5/12/05</u>	o), 7. 🗀 Examiner's Amer	idine in Comment
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examiner's State 9. □ Other	Guy J. Lamarre, P.E Primary Examiner
		a.y Examinor

Reasons For Allowance

* The Examiner has considered the Applicant's IDS of 4/02/04 and 5/12/05. Applicant shall submit references of IDS of 4/02/04 on appropriate Form PTO-1449 in response to present office action.

- * Pursuant to 35 USC 131, Claims 1-14 are presented for examination.
- 1. Claims 1-14 are allowable over the prior art.
- 1.1 The following is an Examiner's statement of reasons for the indication of allowable subject matter: the prior art is exemplified by (US Patent No. 5,818,868) to Gaudenzi et al. and (US Patent No. 6,249,542) to Kohli et al.

Gaudenzi et al. discloses 'direct sequence code division multiple access (DSCDMA) mobile communications system wherein 'code acquisition and detection circuit includes a code adapted filter for delivering correlated samples of the incoming signal. Means process the samples in a noncoherent manner and deliver consecutive samples, then means evaluate the average of the components of the samples within a sliding (smoothing) window of programmable width, and finally means evaluate the maximum value of the groups of significant samples selected. A generator of code replicas generates replicas of the code in synchronism with the estimated start of the code of the received useful signal.'

Gaudenzi et al. further discloses that 'the groups of samples Z(h) are next evaluated in an evaluation circuit 16 whose function is to deliver an indication delta. (h) of the provisional value of the phase shift of the code in respect of the subsequent demodulation, and to deliver the maximum value of the L groups of significant samples. A detection circuit 17 next compares this maximum value with an autoadaptive threshold SATH generated locally by multiplying at 18 the average of the samples by a multiplication factor Lambda and produces the signal presence flag SP when the aforesaid maximum value exceeds the threshold SATH. The provisional value delta.(h) of the phase shift of the code is used in a code generator 19 to synchronize the generation of the replicas C.sub.p and C.sub.q of the code. As the

Application/Control Number: 10/735,285 Page 2 of 3

Art Unit: 2133

case may be, as represented in FIG. 3, the acquisition and detection circuit also comprises a data

unspreader circuit 20 which selects the correlation samples relevant to the provisional value .delta.(h) of

the code phase from the code matched filter output.'

Kohli et al. discloses a communications system comprising a 'spread spectrum receiver

which operates by tracking signals received from a spread spectrum transmitter by correlation with a

local code replica at a first code delay, detecting trackable signals at code delays not adjacent the first

code delay, and comparing the tracked and trackable signals to control the receiver.'

Kohli et al. further discloses that 'Direct path correlation function 226, in the center of the

figure, is the result of correlating a satellite signal received along a direct, line of sight path in the

absence of multipath signal(s), with a replica of the C/A code modulation then present on the direct path

signal. The peak 230 of direct path correlation function 226 is shown at the origin to represent the actual

time of arrival or zero code phase. In practice, this point may be somewhat offset due to filtering and

other biases. Peak 230 will be taken as the punctual code phase, that is, the time of arrival of the PN

Code group from a particular satellite.'

However, these references do not teach or suggest the combination of claim elements

described in Claims 1-14.

1.2 Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

* Any response to this action should be mailed to:

Commissioner of Patents and Trademarks, Washington, D.C. 20231

or faxed to: (571) 273-8300 for all formal communications.

Application/Control Number: 10/735,285 Page 3 of 3

Art Unit: 2133

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Guy J. Lamarre, P.E., whose telephone number is (571) 272-3826. The examiner can normally be reached on Monday to Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert De Cady, can be reached at (571) 272-3819.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-3609.

Information regarding the status of an application may also be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A)

Guy J. Lamarre, P.E Primary Examiner 6/9/2006